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Figure 1. Melting Curves for Genotyping  
the Most Stable Mismatch

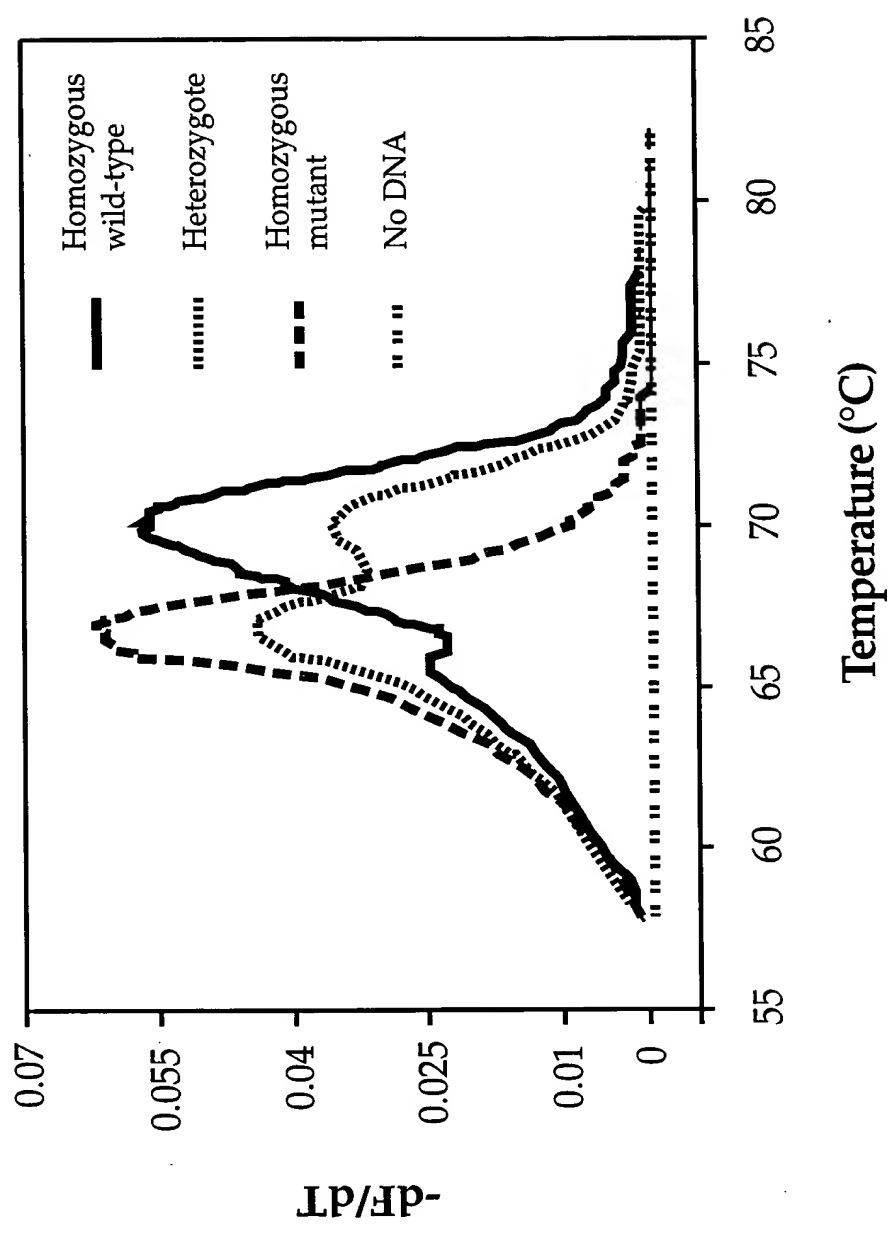


Figure 2. Continuous (within cycle) monitoring of PCR with Hybridization and Exonuclease Probes

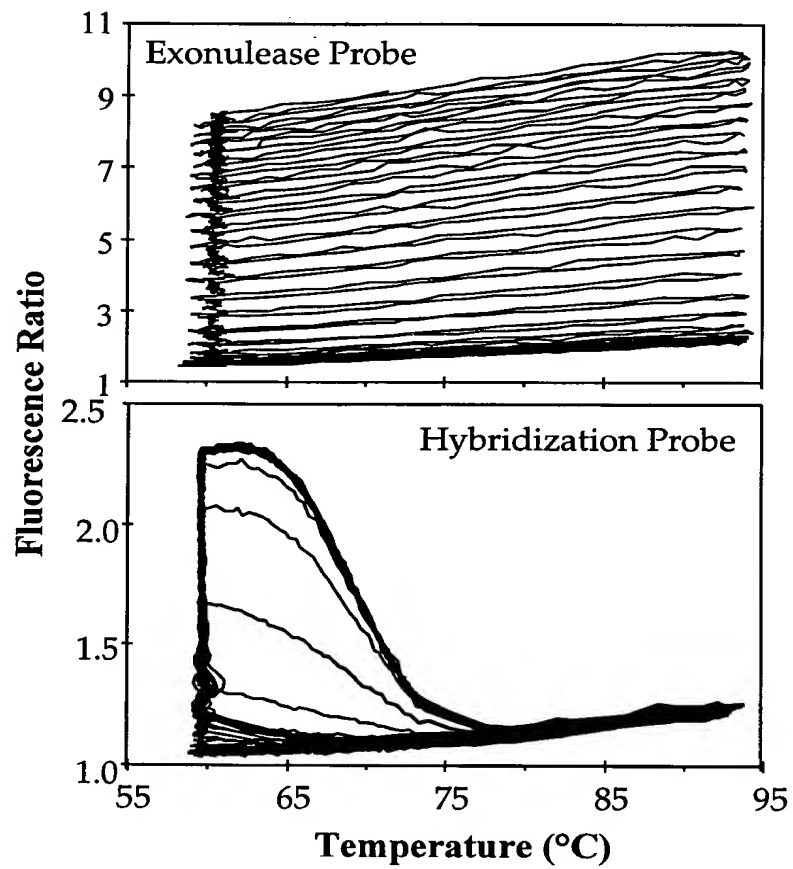


Figure 3. Multiplexing by Color and  $T_m$

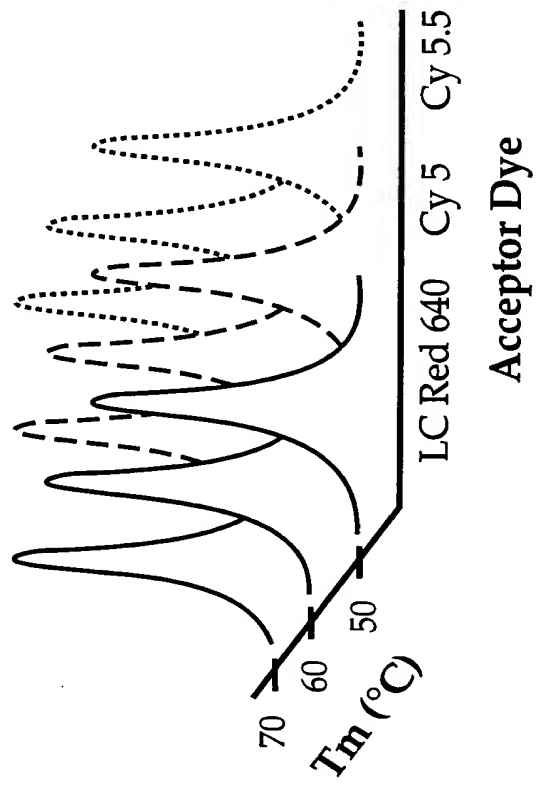


Figure 4. The Rapid Cycler™

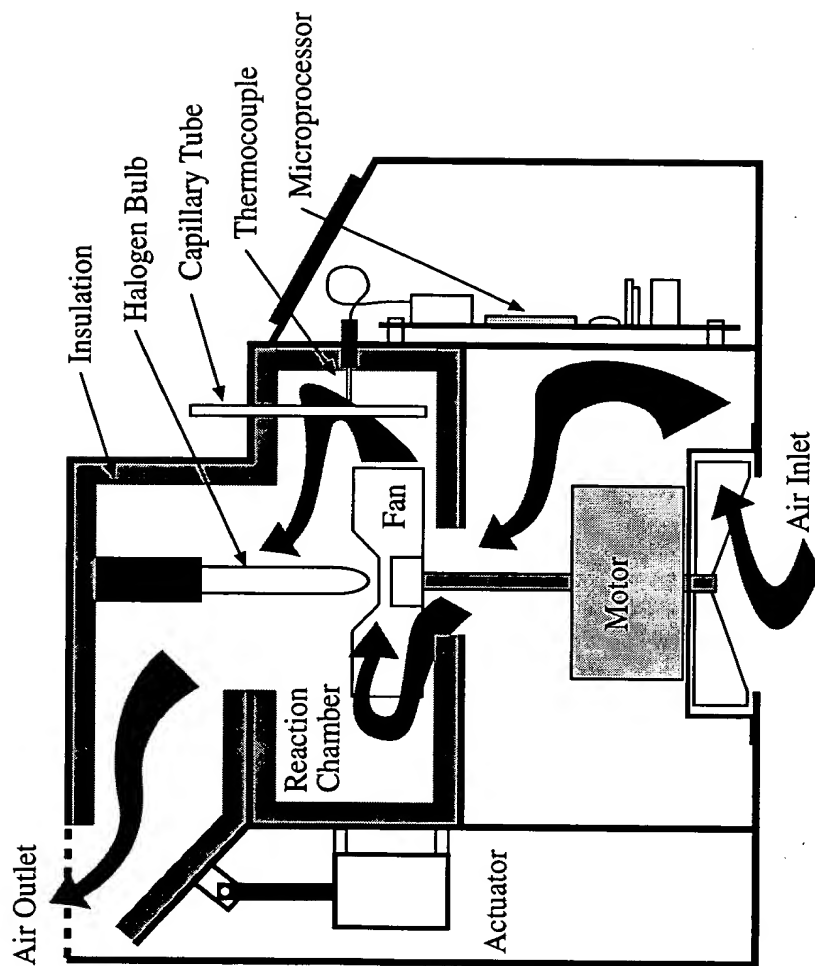


Figure 5. The Light Cycler™

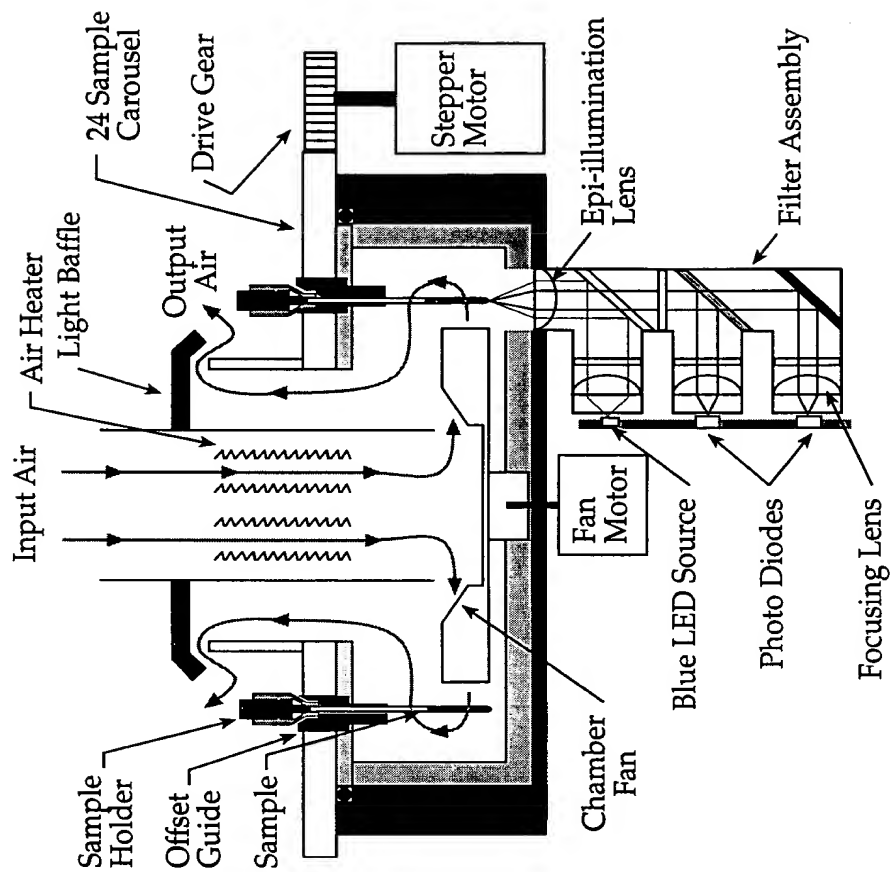




Figure 6. Spectral Overlap between fluorescein, LC Red 640, CY5, Cy5.5

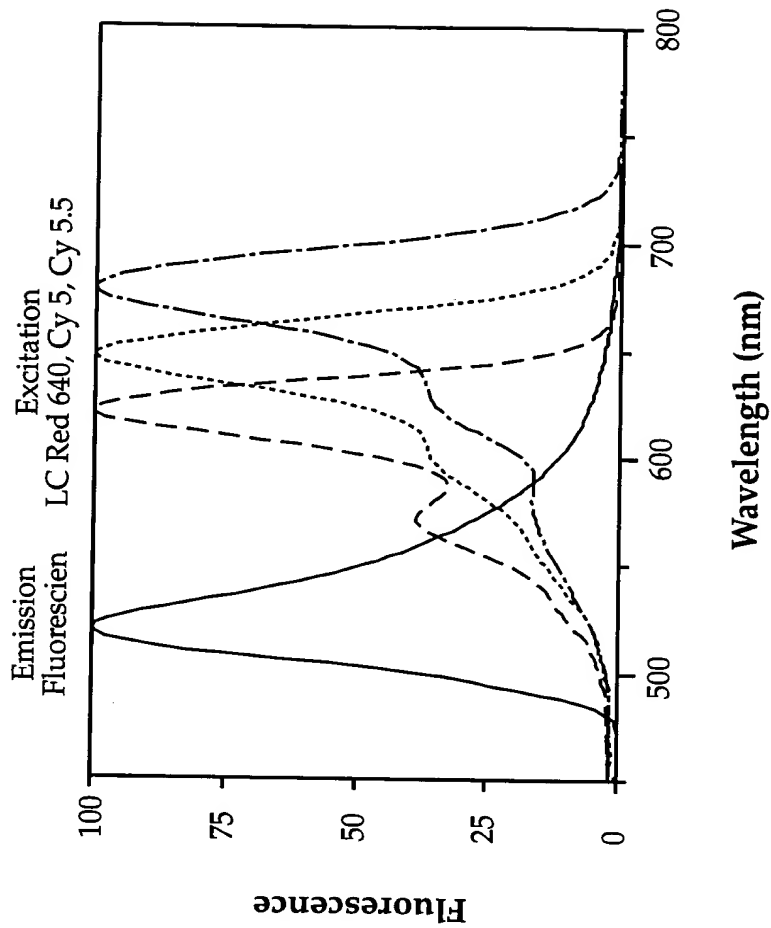


Figure 7. Emission Spectra of Resonance  
Energy Transfer Acceptors

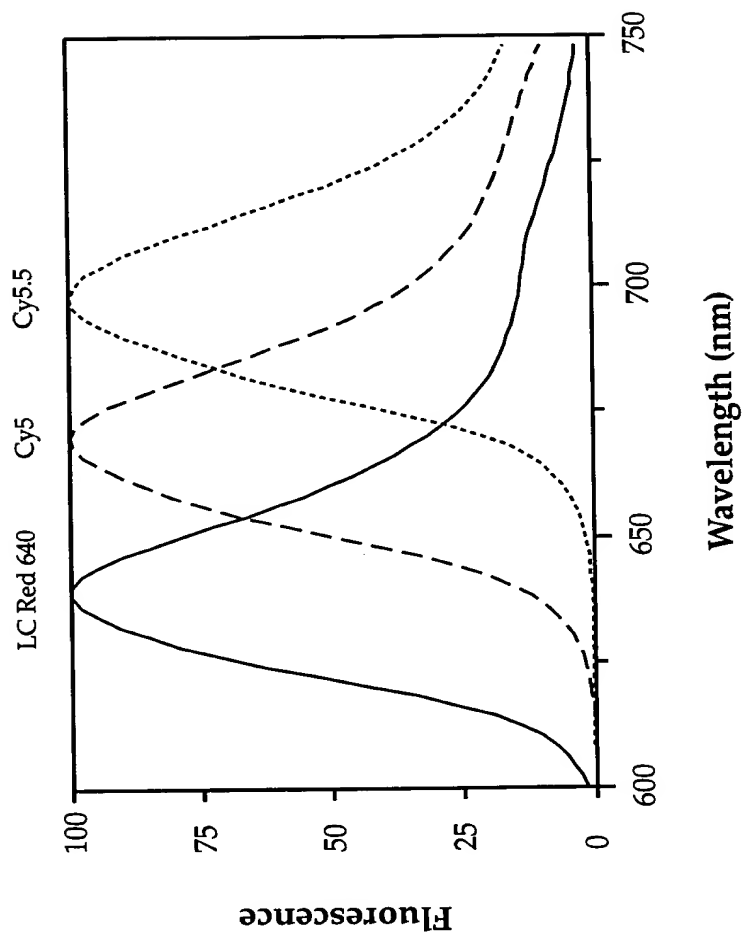
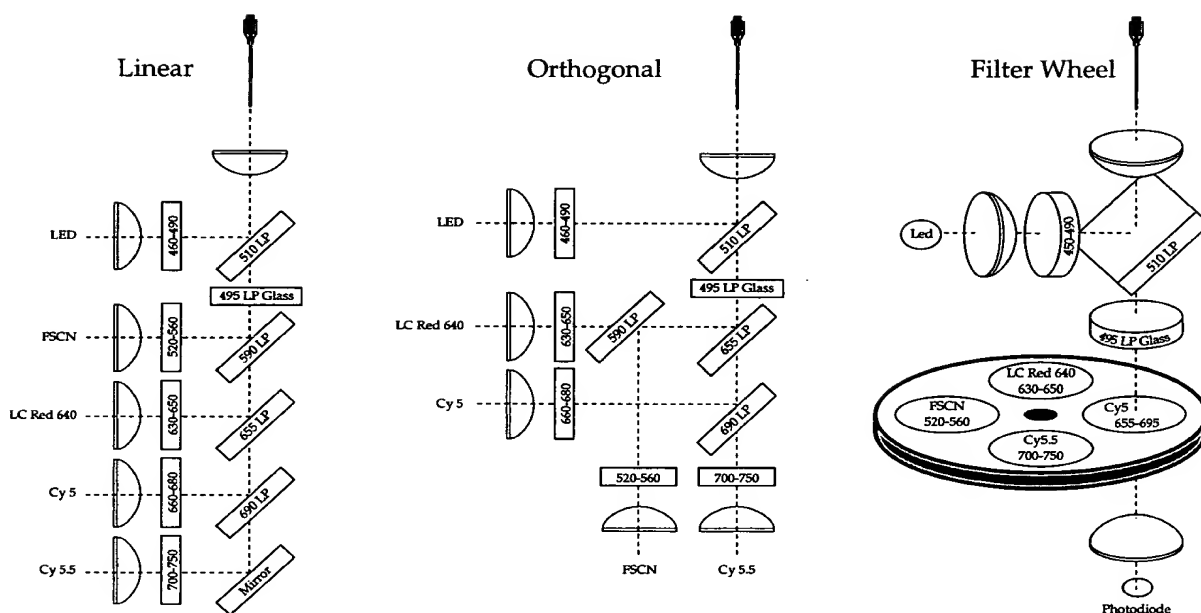


Figure 8. Four Color Light Cycler™ - Optical Design



Percent of Spectra in Band Pass

	FSCN	LC Red 640	Cy 5	Cy 5.5
LED	47	0.8	0.2	0.3
FSCN	48	<0.1	<0.1	<0.1
LC Red 640	1.5	41	7.8	0.8
Cy 5	0.7	14	43	11
Cy 5.5	0.4	7.7	16	49



Figure 9.

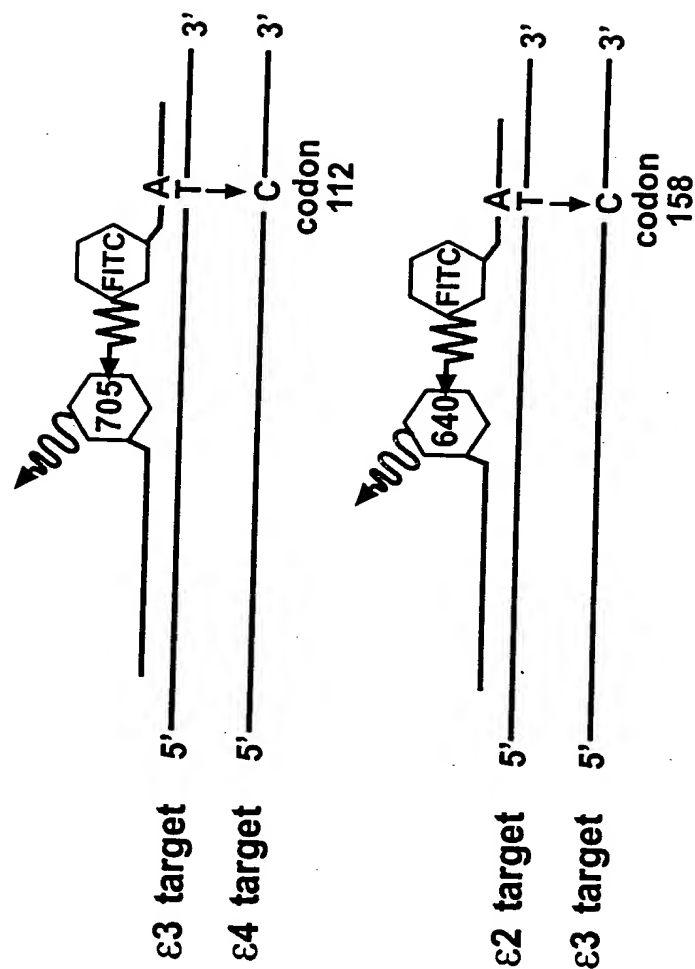


Figure 10.

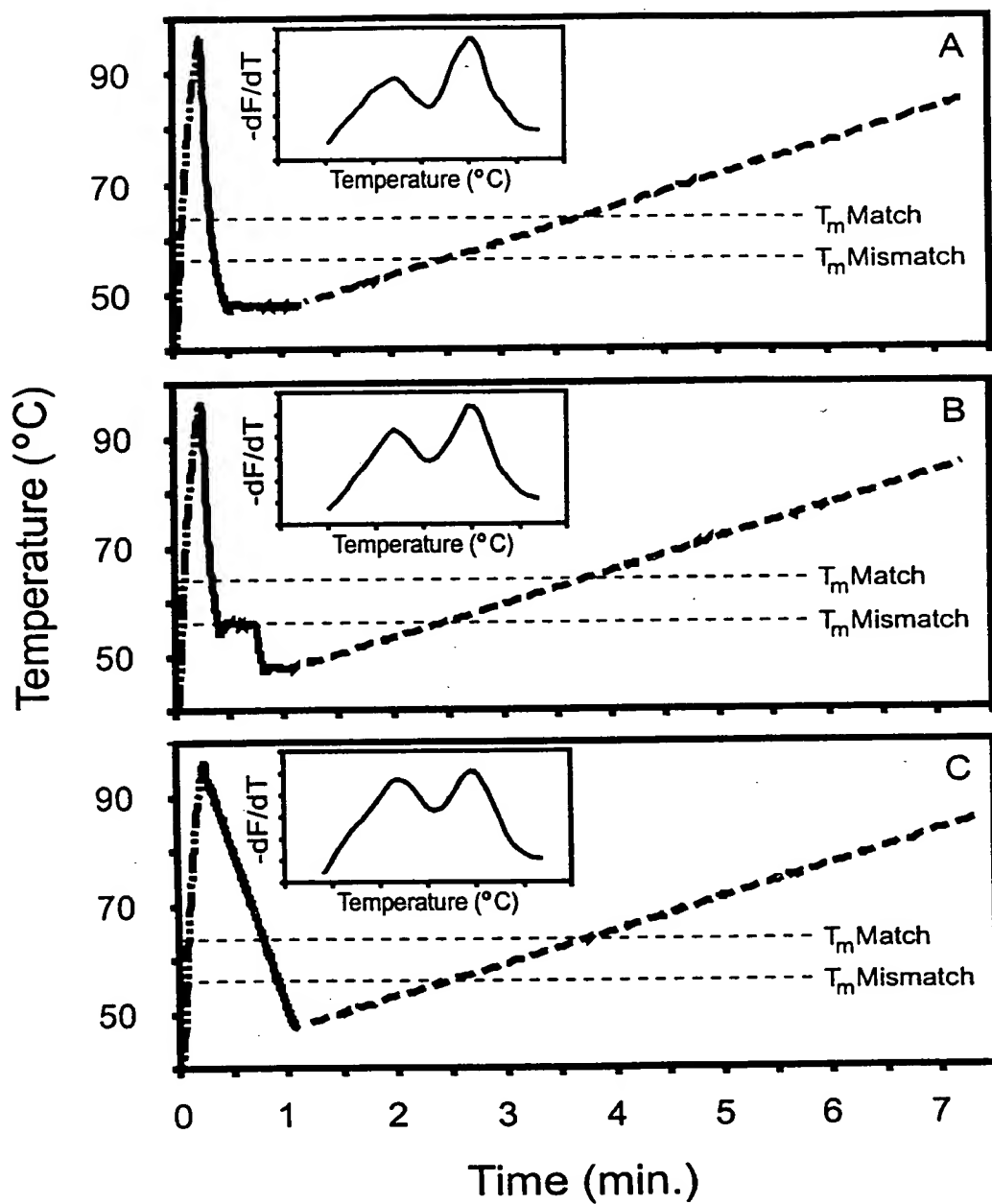
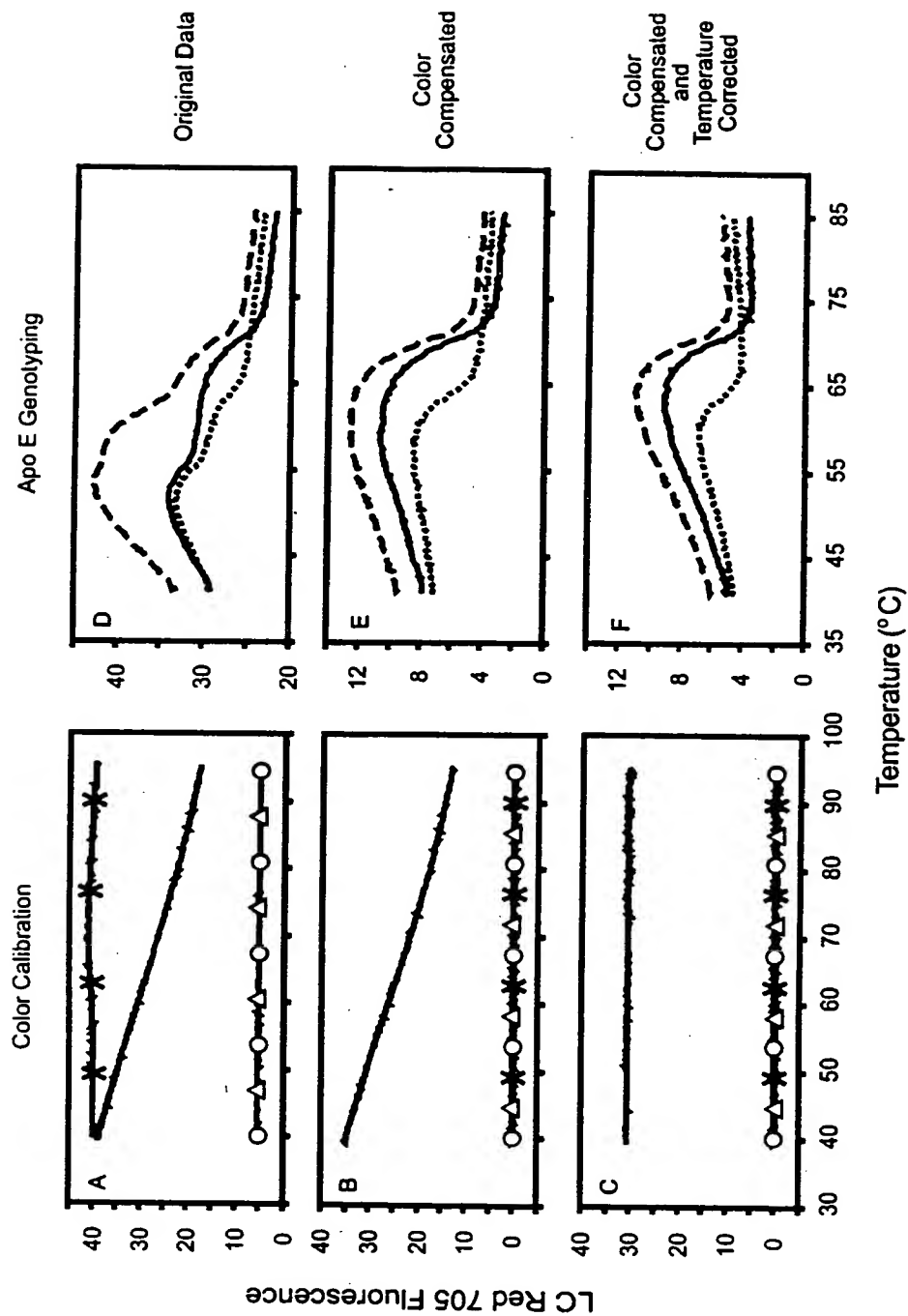


Figure 11.



198

Figure 12.

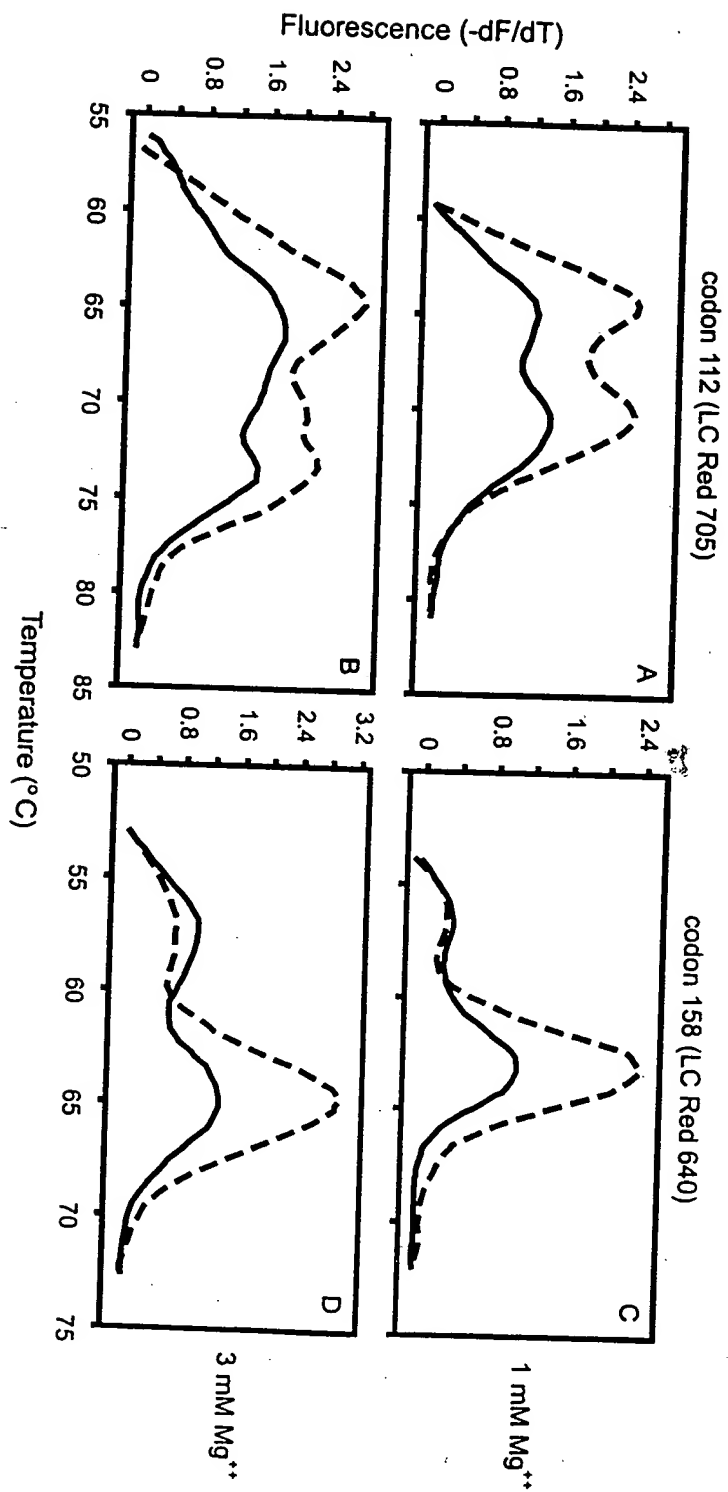


Figure 13.

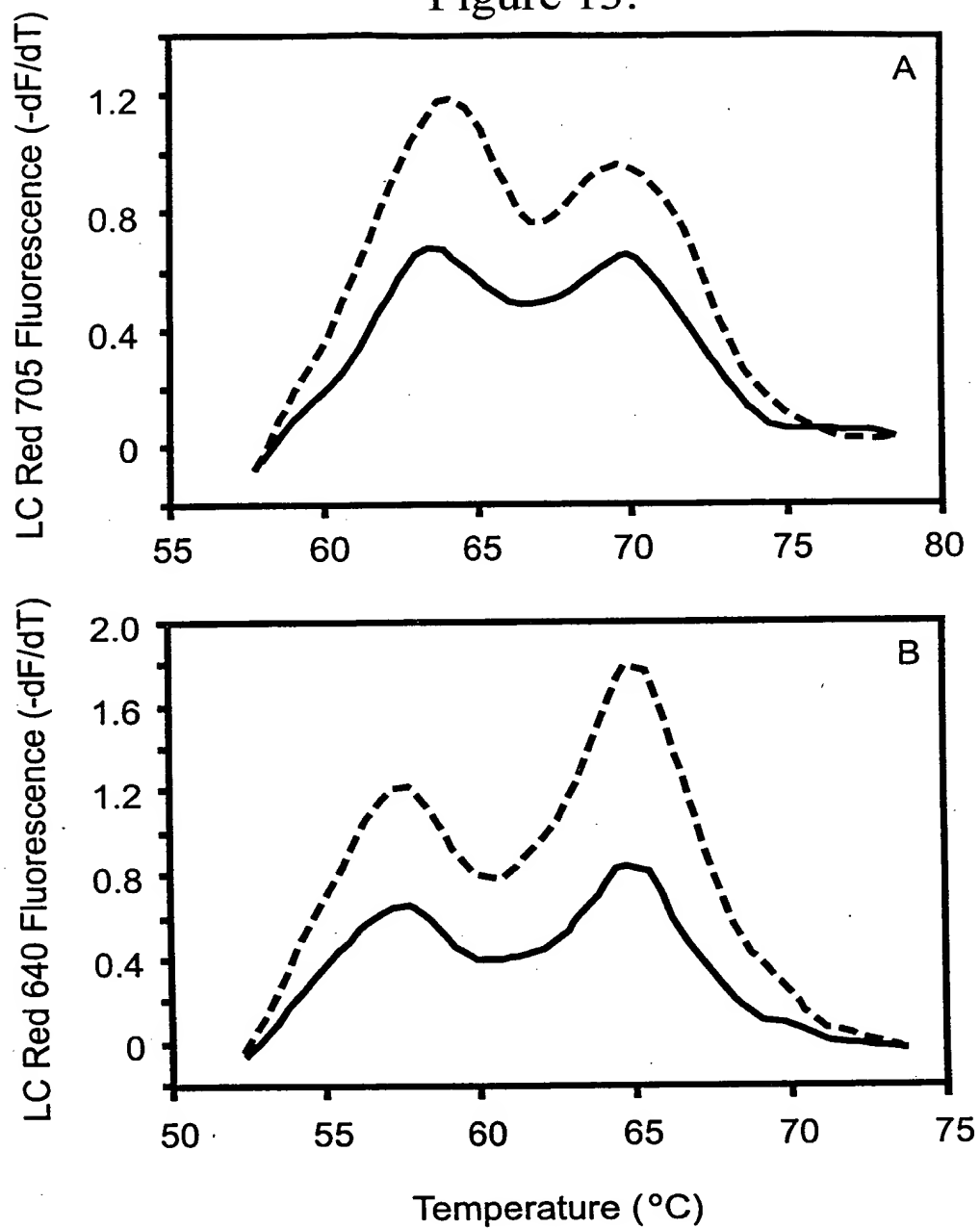


Figure 14.

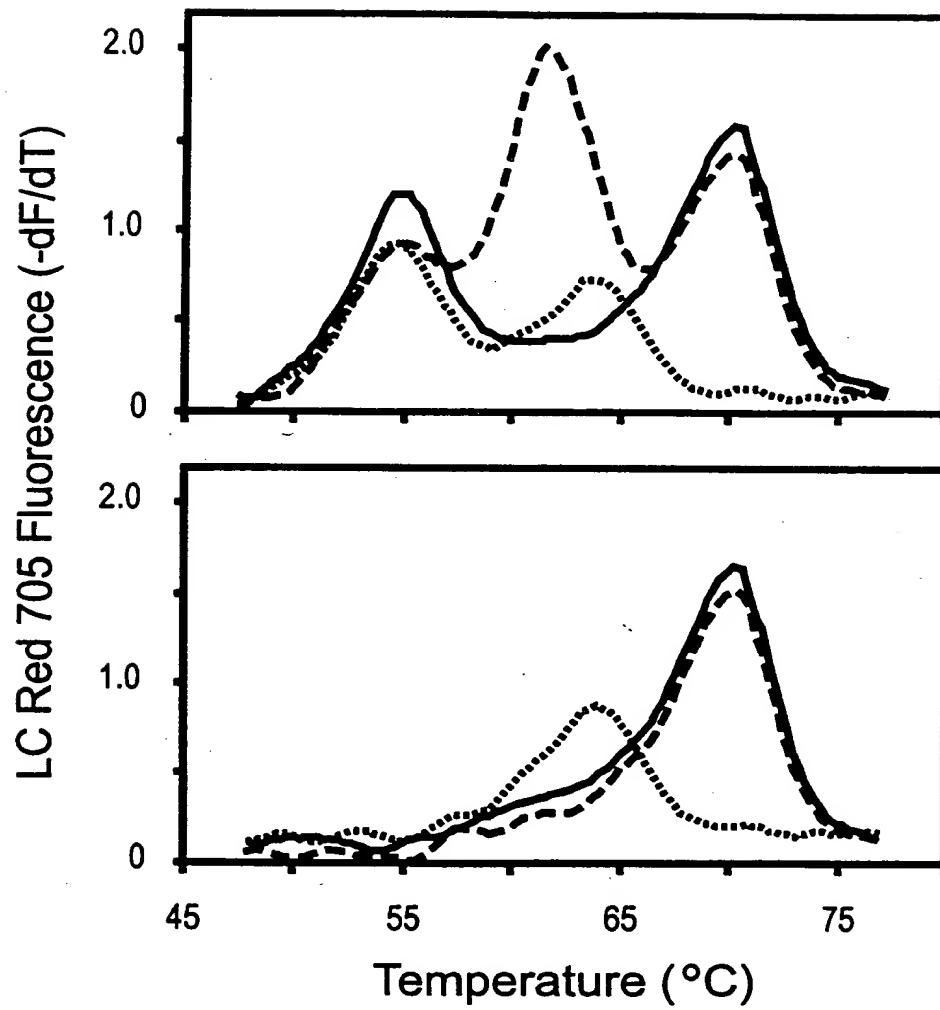


Figure 15.

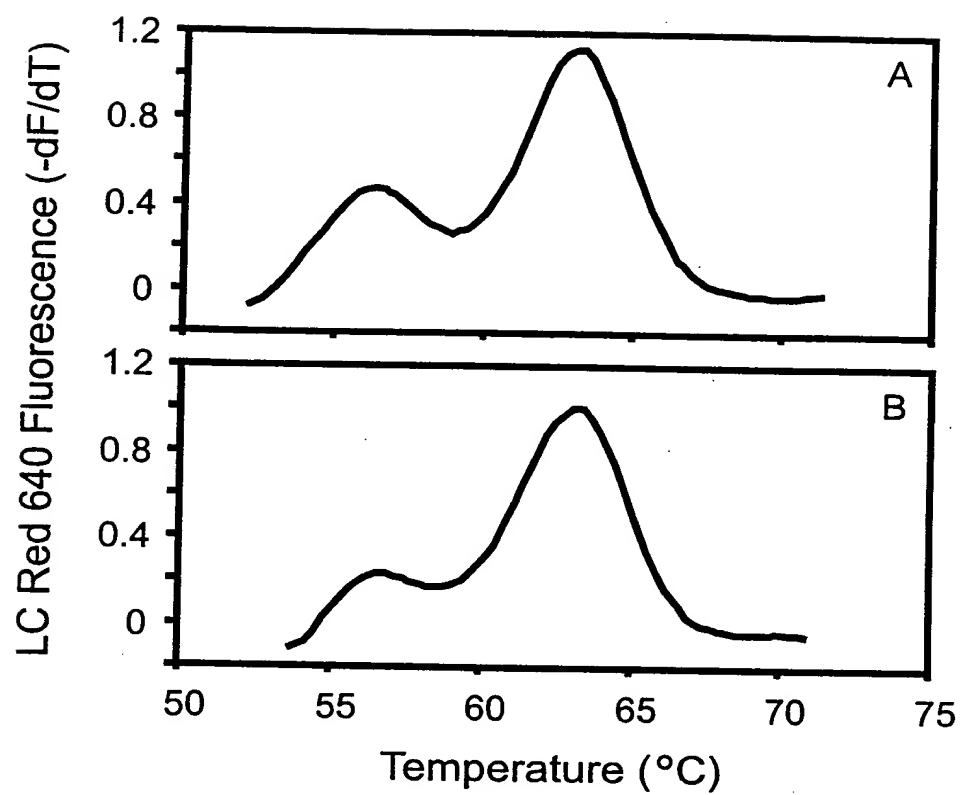


Figure 16.

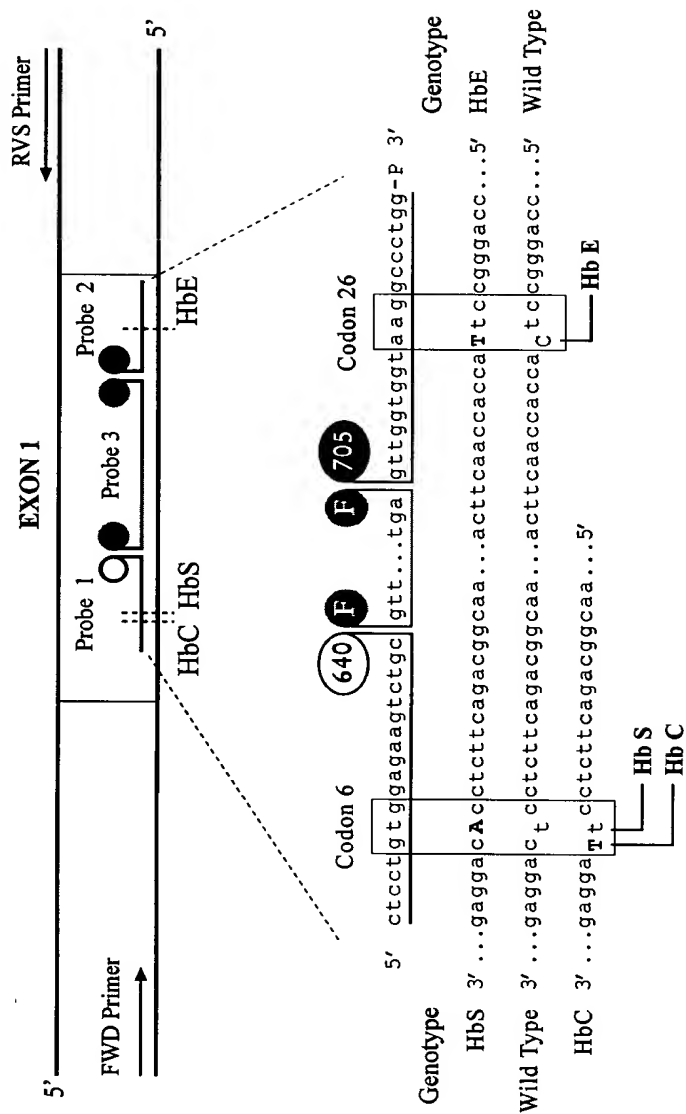
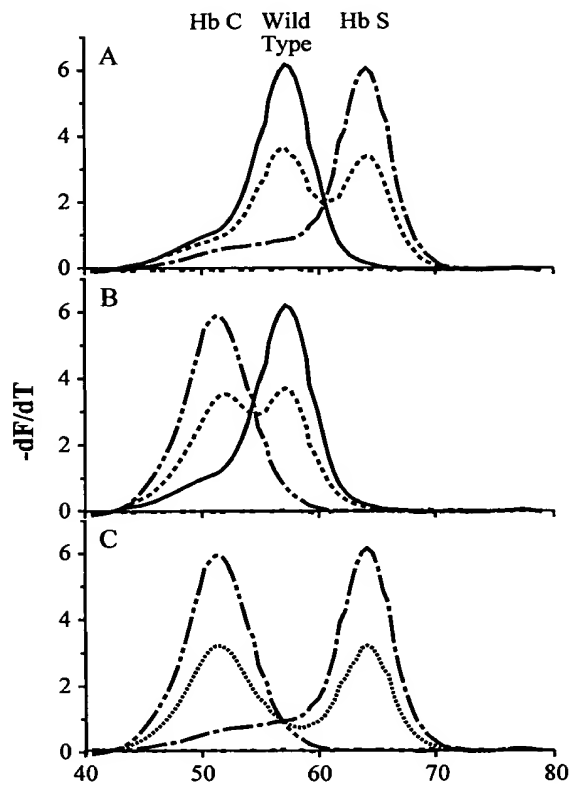




Figure 17.

Codon 6 Probe (LC Red 640)



Codon 26 Probe (LC Red 705)

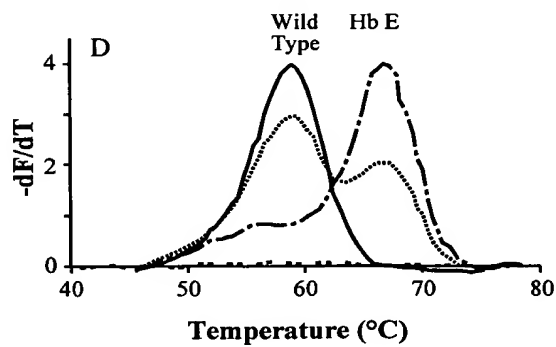


Figure 18.

Sequence Variation and Probe Design at HLA-A

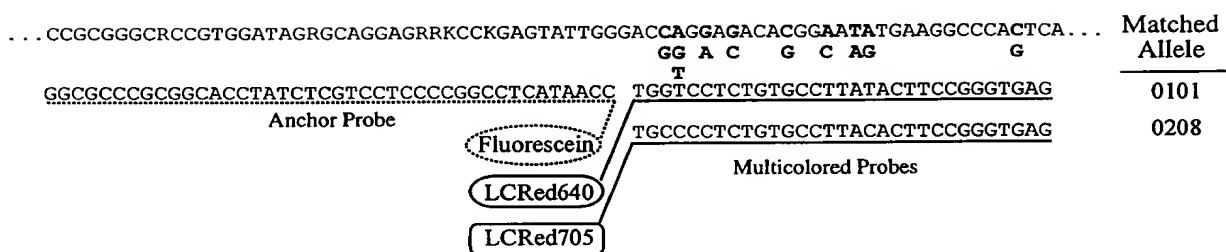


Figure 19. Predicted Tms for 2 Probes at a HLA-A Variable Region

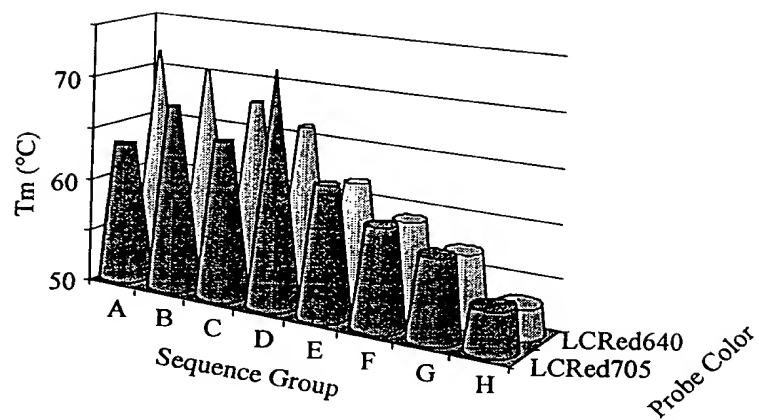




Figure 20. Sequence Variation and Probe Design at DRB1

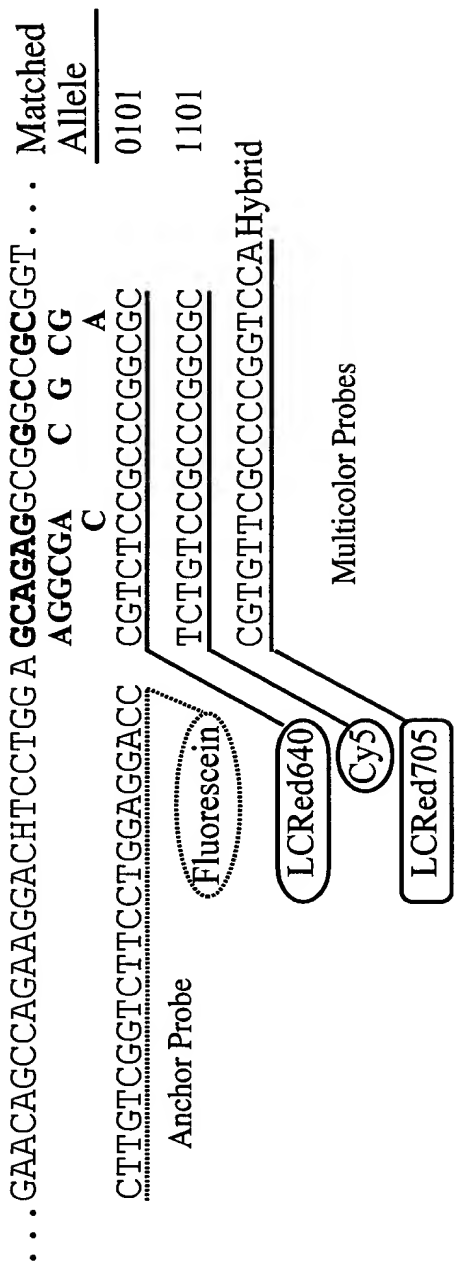




Figure 21. Predicted Tms for 3 Probes at a HLA DRB1 Variable Region

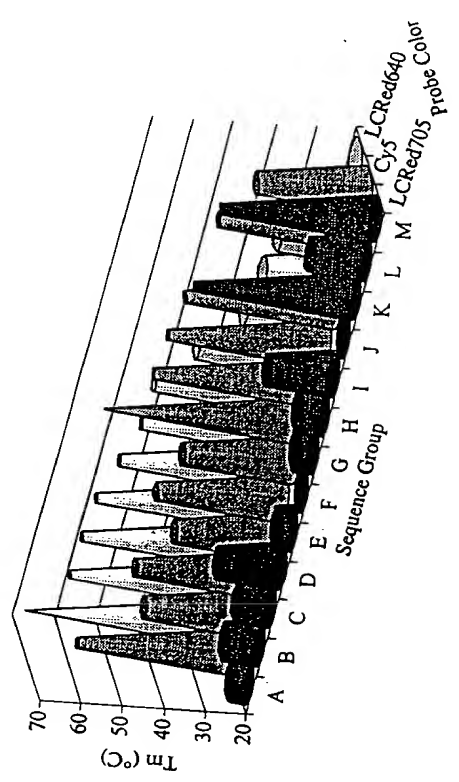




Figure 22. Scanning for Mutations

